

GAS FRYER

FryTech Series





ASF-60G shown with optional automatic basket lifts

ASF-60G Gas Fryer

- INSTALLATION
- OPERATION
- MAINTENANCE





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DELIVERY

This Alto-Shaam appliance has been thoroughly tested and inspected to ensure only the highest quality unit is provided. Upon receipt, check for any possible shipping damage and report it at once to the delivering carrier. See Transportation Damage and Claims section located in this manual.

This appliance, complete with unattached items and accessories, may have been delivered in one or more packages. Check to ensure that all standard items and options have been received with each model as ordered.

Save all the information and instructions packed with the appliance. Complete and return the warranty card to the factory as soon as possible to ensure prompt service in the event of a warranty parts and labor claim.

This manual must be read and understood by all people using or installing the equipment model. Contact the Alto-Shaam Tech Team Service Department if you have any questions concerning installation, operation, or maintenance.

NOTE: All claims for warranty must include the full model number and serial number of the unit.

DANGER



BEFORE STARTING THE APPLIANCE, MAKE CERTAIN YOU DO NOT DETECT THE ODOR OF GAS.

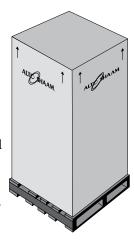
IF THE ODOR OF GAS IS DETECTED:

- DO NOT attempt to light any appliance.
- DO NOT touch any electrical switches.
- Extinguish any open flame.
- Use a telephone OUTSIDE THE PROPERTY & IMMEDIATELY contact your gas supplier.
- If unable to contact your gas supplier, contact the fire department.

UNPACKING

 Carefully remove the appliance from the carton or crate.

NOTE: Do not discard the carton and other packaging material until you have inspected the unit for hidden damage and tested it for proper operation.



2. Read all instructions in this manual carefully before initiating the installation of this appliance.

DO NOT DISCARD THIS MANUAL.

This manual is considered to be part of the appliance and is to be provided to the owner or manager of the business or to the person responsible for training operators. Additional manuals are available from the Alto-Shaam Tech Team Service Department.

3. Remove all protective plastic film, packaging materials, and accessories from the appliance before connecting electrical power. Store any accessories in a convenient place for future use.

WARNING



In the event of loss of power to the appliance, turn the "burner control knobs" to the OFF position. Remove food product from the unit. If burner control fails to extinguish the flame, shut off main gas valve located in rear of unit.

KEEP THIS MANUAL IN A CONVENIENT LOCATION FOR REFERENCE.

SAFETY PROCEDURES AND PRECAUTIONS

Knowledge of proper procedures is essential to the safe operation of electrically and/or gas energized equipment. In accordance with generally accepted product safety labeling guidelines for potential hazards, the following signal words and symbols may be used throughout this manual.

DANGER



Used to indicate the presence of a hazard that WILL cause severe personal injury, death, or substantial property damage if the warning included with this symbol is ignored.

WARNING



Used to indicate the presence of a hazard that CAN cause personal injury, possible death, or major property damage if the warning included with this symbol is ignored.

CAUTION



Used to indicate the presence of a hazard that can or will cause minor or moderate personal injury or property damage if the warning included with this symbol is ignored.

CAUTION

Used to indicate the presence of a hazard that can or will cause minor personal injury, property damage, or a potential unsafe practice if the warning included with this symbol is ignored.

NOTE: Used to notify personnel of installation, operation, or maintenance information that is important but not hazard related.

- 1. This appliance is intended to cook, hold or process foods for the purpose of human consumption. No other use for this appliance is authorized or recommended.
- 2. This appliance is intended for use in commercial establishments where all operators are familiar with the purpose, limitations, and associated hazards of this appliance. Operating instructions and warnings must be read and understood by all operators and users.
- 3. Any troubleshooting guides, component views, and parts lists included in this manual are for general reference only and are intended for use by qualified technical personnel.
- 4. This manual should be considered a permanent part of this appliance. This manual and all supplied instructions, diagrams, schematics, parts lists, notices, and labels must remain with the appliance if the item is sold or moved to another location.

NOTE



For equipment delivered for use in any location regulated by the following directive:

DO NOT DISPOSE OF ELECTRICAL OR ELECTRONIC EQUIPMENT WITH OTHER MUNICIPAL WASTE.

ASF-60 SPECIFICATIONS

DIMENSIONS EXTERIOR (H X W X D)

44-3/8" x 15" x 35-7/16" (1126mm x 381mm x 900mm)

CAPACITY

SHORTENING/OIL: 62 lb (28 kg) MAXIMUM
LOAD CAPACITY: 8 lb (4 kg) MAXIMUM

WEIGHT EST	NET WEIGHT	SHIP WEIGHT
WITHOUT LIFTS	248 lb (113 kg)	330 lb (150 kg)
WITH LIFTS	265 lb (120 kg)	347 lb (157 kg)
CARTON DIMENSI	ons 22" x 3	39" x 55"
(L x w x H)	(559mm x 991	mm x 1397mm)

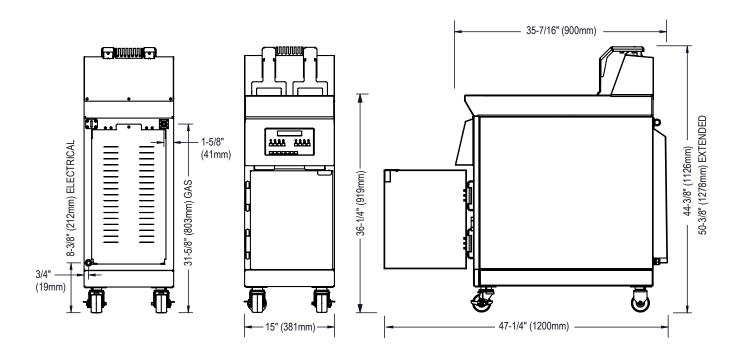
STANDARD ACCESSORIES	
☐ Basket, Half-Size (2 INCLUDED AS STANDARD)	BS-35214
Brush Set (one 2-brush set included as standard)	
☐ SCRUB BRUSH	BH-28693
\square STRAIGHT BRUSH	BH-28691

OPTIONS	
☐ Frypot Cover	CONTACT FACTORY
☐ Strainer/Skimmer	CE-27400
\square Banking Strip (1 strip req'd for every 2 banked frye	rs) 1011147
☐ Mobile Oil Caddy with wand	TO-28359









DANGER



IMPROPER INSTALLATION,
ALTERATION, ADJUSTMENT,
SERVICE, OR MAINTENANCE COULD
RESULT IN SEVERE INJURY, DEATH,
OR CAUSE PROPERTY DAMAGE.

READ THE INSTALLATION,
OPERATING AND MAINTENANCE
INSTRUCTIONS THOROUGHLY
BEFORE INSTALLING OR SERVICING
THIS EQUIPMENT.

DANGER



AVERTISSEMENT: UNE INSTALLATION, UN AJUSTEMENT, UNE ALTÉRATION, UN SERVICE OU UN ENTRETIEN NON CONFORME AUX NORMES PEUT CAUSER DES DOMMAGES À LA PROPRIÉTÉ, DES BLESSURES OU LA MORT.

LIRE ATTENTIVEMENT LES DIRECTIVES D'OPÉRATION ET D'ENTRETIEN AVANT DE FAIRE L'INSTALLATION, OU L'ENTRETIEN DE CET ÉQUIPEMENT.

CAUTION



METAL PARTS OF THIS EQUIPMENT BECOME EXTREMELY HOT WHEN IN OPERATION. TO AVOID BURNS, ALWAYS USE HAND PROTECTION WHEN OPERATING THIS APPLIANCE.

SITE INSTALLATION

MINIMUM CLEARANCE REQUIREMENTS					
	COMBUSTIBLE SURFACES	NON-COMBUSTIBLE SURFACES			
RIGHT SIDE	6" (152mm)	0" (0mm)			
LEFT SIDE	6" (152mm)	0" (0mm)			
BACK	6" (152mm)				
FRONT	25" (635mm)				

PLUS: 6" (152mm) minimum between the element swing in the extended position and the lower edge of the exhaust hood and filter media.

Ne pas installer à une distance inférirure à celle indiquée ce-dessous d'une parol en matiére combustible: Côtés 6 pouches. Arriére 6 pouches.

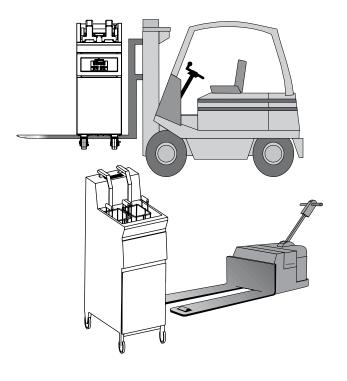
CAUTION

DO NOT USE FORKLIFT FROM FRONT OR REAR OF UNIT.
USE FORKLIFT FROM SIDE ONLY.

WARNING

MINIMUM CLEARANCES MUST REMAIN UNOBSTRUCTED.

DO NOT place insulation or any other type of materials in clearance areas.



SITE INSTALLATION

- 1. It is the responsibility of the installer to verify that this installation is in compliance with the specifications listed in this manual and with local code requirements.
- 2. Hood installation is required.
- 3. Both cooking and cleaning functions require unobstructed access. The frypots, control panels, and front access doors must be maintained free from obstruction. The front access door and back panel must be accessible for service and maintenance.
- 4. Locate the appliance on a firm, level surface ONLY. The surrounding area must be kept clear of all combustible materials.
- 5. **FOR YOUR SAFETY DO NOT** store or use any flammable liquids or allow flammable vapors in the vicinity of this fryer or any other appliance.
- 6. **FOR YOUR SAFETY DO NOT** place insulation or any other type of materials in clearance areas.
- 7. When properly installed, the fryer is designed for operation adjacent to non-combustible floors and walls with a 6" clearance at the back. Clearances from all combustible construction is a minimum of 6" (152mm) at the back and both sides. Concrete, tile, terrazzo, or metal surfaces are recommended. Metal over a combustible material may not meet code for non-combustible surfaces. Verify site selection with local codes for specific requirements.

Doit être utilisé seulement sur des planchers non inflammables.

8. Adequate means must be provided to limit the movement of this appliance. A restraining device is required for field installation.

- 9. DO NOT install this appliance in any area where it may be affected by any adverse conditions such as steam or dripping water, etc. DO NOT install fryer over a drain.
- 10. **LEVELING:** Make certain the appliance is positioned firmly on all supporting casters. Level from front-to-back and side-to-side by holding lower collar (#2) while twisting upper collar (#1). Restraining ties can be used for stabilization if necessary. Use an allen wrench (#3) to lock caster in position.

WARNING

fryer is stabilized before operation to prevent any movement or tipping and the possibility of severe burns caused by hot, splashing shortening or oil.

DANGER



To avoid electrical shock, this appliance MUST be adequately grounded in accordance with local electrical codes or, in the absence of local codes, with the current edition of the National Electrical Code ANSI/NFPA No. 70. In Canada, all electrical connections are to be made in accordance with CSA C22.1, Canadian Electrical Code Part 1 or local codes.

CAUTION



TO PREVENT PERSONAL INJURY, USE CAUTION WHEN MOVING OR LEVELING THIS APPLIANCE.

WARNING



IMPROPER INSTALLATION MAY RESULT IN FIRE.

Carefully read and follow all installation instructions located in this manual.

VENTILATION

DANGER



Installation, air adjustment and/or service work must be in accordance with all local codes and must be performed by a certified service technician qualified to work on gas appliances.

An adequate ventilation system is required for commercial cooking equipment. Information may be obtained by writing to the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269. When writing refer to NFPA No. 96.

- 1. A single ASF-60G auto-lift gas fryer requires a minimum of 120 CFM make-up air for natural gas and 48 CFM for propane gas. Kitchen ventilation must be of sufficient capacity to prevent a negative-pressure condition. **DO NOT** obstruct or restrict ventilation nor the air flow required to support combustion.
- 2. DO NOT obstruct the flow of the exhaust flue at the top rear of the fryer. It is especially critical that gas supply piping and electrical support cord and/or receptacle be routed away from the path of the hot combustion fumes.

- **3.** This fryer cannot be direct vented.
- **4.** Install the fryer under a ventilation hood meeting all applicable code requirements. Combustion fumes must be vented in accordance with local, state, or national codes.

CAUTION



To prevent malfunction or cause negative back draft, DO NOT obstruct exhaust flues or attach any flue extension that will impede proper burner operation.

↑ DANGER

FAILURE TO VENT THIS FRYER PROPERLY MAY BE HAZARDOUS TO THE HEALTH OF THE OPERATOR.

Equipment damage and operational problems may also be the consequence of improper venting.

Any damages sustained by a failure to properly vent this fryer are not covered under warranty.

Ventilating hoods and exhaust systems shall be permitted to be used to vent appliances installed in commercial applications.

Where automatically operated appliances are vented through a ventilating hood or exhaust system equipped with a damper or with a power means of exhaust, provisions shall be made to allow the flow of gas to the main burners only when the damper is open to a position to properly vent the appliance and when the power means of exhaust is in operation. IN ACCORDANCE WITH NFPA 54 COMMONWEALTH OF MASSACHUSETTS ONLY.

GAS SPECIFICATIONS

The Alto-Shaam open gas fryer has been set to operate with either natural gas or propane as indicated on the fryer identification name plate.

ADANGER



CONNECTING TO THE WRONG GAS SUPPLY COULD RESULT IN FIRE OR AN EXPLOSION CAUSING SEVERE INJURY AND PROPERTY DAMAGE.

WARNING



TO AVOID SERIOUS PERSONAL INJURY, installation of this appliance must conform to local, state, and national codes; the current edition of the American National Standard Z223.1, National Fuel Gas Code, and all local municipal building codes. In Canada, installation must be in accordance with Standard CAN/CSA B 149.1 and Installation Codes - Gas Burning Appliances, and local codes.

Category	$\rm I_{_{2H}}$ at 20 mbar for use in AT, DK, FI, IE, IT, PT, SE, CH.
Category	$I_{_{\rm 2E(20)}}$ at 20/25 mbar for use in DE, LU.
Category	$I_{_{\mathrm{2E+(20/25)}}}$ at 20/25 mbar for use in BE, FR.
Category	$I_{\scriptscriptstyle 2L(25)}$ at 25 mbar for use in NL.
Category	$I_{3+(28\cdot30/37)}$ at 28-30/37 mbar for use in BE, FR, IE, IT, LU, PT, CH.
Category	$I_{_{3B/P(30)}}$ at 30 mbar for use in DK, FI, NL, SE.
Category	$I_{\scriptscriptstyle 3B/P(S0)}$ at 50 mbar for use in AT, DE, CH.
Category	$I_{_{3P(37)}}$ at 37 mbar for use in FI, DE, IE, CH.

Declared input (kW)	35.15
Gas Group	I _{2H(20)} , I _{2E(20)} , I _{2E+(20/25)} , I _{2L(25)} , I _{3+(28-30/37)} , I _{3B/P(30)} , I _{3B/P(37)} , I _{3B/P(50)} , I _{3P(37)} , I _{3P(50)}
Inlet pressure (mbar)	17.5 (NAT) and 27.5 (LP)
Declared setting pressure at the outlet from the gas valve (mbar)	12.5 (NAT) and 25 (LP)
Main burner type	Infrared type with blower and venturi valve
Number of injectors	1
Main injector type	N/A
Main injector size and markings	N/A
Main burner aeration opening size	Variable pre-set at factory
Ignition	Direct spark electronic ignition
Inlet connection	20.995 mm male thread

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi. The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi.

NOTE: Customer/installer must provide manual gas shut-off valve in accordance with local code requirements.

GAS PRESSURE CHART

The fryer has been factory adjusted according to the gas type specified on the fryer identification name plate.

GAS FRYER TECHNICAL SPECIFICATIONS

Natural Gas				
Min. Connected Pressure	5.0" W.C.	1.2 kPa		
Max. Connected Pressure	11.0" W.C.	2.74 kPa		
Gas Consumption	120 CFM			
Gross Thermal Output	120,000 Btu/hr			
Propane Gas				
Min. Connected Pressure	10.0" W.C.	2.5 kPa		
May Connected Pressure	14 0" W C	3.5 l/Pa		

Tropuno duo	<u> </u>	
Min. Connected Pressure	10.0" W.C.	2.5 kPa
Max. Connected Pressure	14.0" W.C.	3.5 kPa
Gas Consumption Gross Thermal Output	48 C 120,000	

INSTALLATION REQUIREMENTS

GAS CONNECTION: 1/2" NPT HOOD INSTALLATION IS REQUIRED

Check plumbing codes for proper supply line sizing to attain minimum burner manifold pressure shown:

NATURAL GAS: 5.0" W.C. PROPANE GAS: 10.0" W.C. (1.2 kPa) (2.5 kPa)

MAX, RECOMMENDED

INLET PRESSURE: 11" W.C (2.74 kPa) 14" W.C. (3.5 kPa)

NOTE: If a flexible gas line is used, it must be AGA approved, commercial type and at least 1/2" I.D.

Manual gas shut-off valve and restraining device must be installed per code requirements when using a quick disconnect device.

NOT FACTORY SUPPLIED

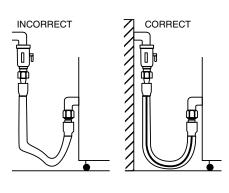
GAS SPECIFICATIONS

DANGER



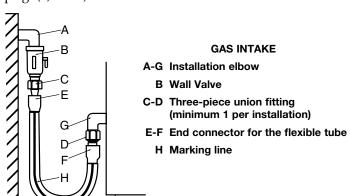
Installation, air adjustment and/or service work must be in accordance with all local codes and must be performed by a certified service technician qualified to work on gas appliances.

Use an approved gas pipe sealant at all external threaded connections, gas piping used on gas connections must avoid sharp bends that may restrict the flow of gas to the appliance. If the connected pressure



exceeds 14.0" W.C. (3.5 kPa) for propane and 11.0" W.C. (2.74 kPA) for natural gas, a step-down regulator is required to be supplied by the owner/operator.

Close the individual manual shut-off valve to <u>isolate</u> <u>the fryer</u> from the gas supply piping system during any pressure testing at test pressures equal to or less than 1/2 psig. (3.4 kPa). The fryer and individual shut-off valve <u>must be disconnected</u> from the gas supply piping system during any pressure testing at pressures in excess of 1/2 psig. (3,4 kPa).



In the U.S.A., installation must conform to local codes or, in the absence of local codes, with the current edition of the *National Fuel Gas Code*, NFPA-54 and ANSI Z83.11a CSA 1.8a 2004 (or latest edition). In Canada, installation must be in accordance with local codes, CAN/CGA-B149.1, *Installation for Natural Gas Burning Appliances and Equipment* (latest edition) or CAN/CGA-B149.2 *Installation for Propane Burning Appliances and Equipment* (latest edition).

The inlet supply line must be properly sized to accommodate all individual appliances simultaneously used on the same line but must never be smaller than 3/4" I.D.

LEAK TESTING

Installation requires gas leak testing on all gas piping and fittings. Use an approved electronic leak device or a soap and water solution at all gas connections. If bubbling appears when using a soap and water solution, the connection must be refitted. Never use an open flame to leak test.



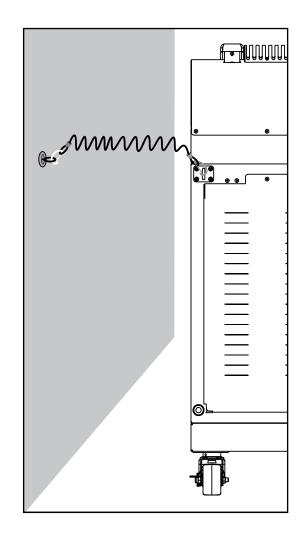
RESTRAINT REQUIREMENTS - MOBILE EQUIPMENT

The fryer must be supplied with a connector that complies with all state and local installation codes.

Any appliance that is not furnished with a power supply cord but that includes a set of casters must be tethered. Adequate means must be provided to limit the movement of this appliance without depending on or transmitting stress to the electrical conduit. The following requirements apply:

- 1. Casters must be a maximum height of 4-inches (102mm).
- **2.** Such mobile appliances must be installed with the use of a flexible connector secured to the building structure.

A mounting connector for a restraining device is located on the upper back flange of the appliance chassis, approximately 31" (787mm) from the floor. A flexible connector is not supplied by nor is it available from the factory.





ELECTRICAL REQUIREMENTS

DANGER





To avoid electrical shock, this appliance MUST be adequately grounded in accordance with local electrical codes or, in the absence of local codes, with the current edition of the National Electrical Code ANSI/NFPA No. 70. In Canada, all electrical connections are to be made in accordance with CSA C22.1, Canadian Electrical Code Part 1 or local codes.

An electrical wiring diagram is located in the fryer kettle. The fryer must be installed by a qualified electrician. This appliance must be branch circuit protected with proper ampacities, in accordance with the wiring diagram. The fryer must be properly grounded in accordance with the National Electrical Code and applicable local codes. A means to disconnect the unit must be incorporated into the fixed wiring in accordance with wiring codes.

Wire size for the main incoming power to the unit must match the minimum size listed in the specifications applicable to the specific fryer.

Before operating the fryer, check all cable connections in the electrical connection area for tightness since connections can loosen during transport.





ENSURE POWER SOURCE
MATCHES VOLTAGE IDENTIFIED
ON APPLIANCE RATING TAG.

For CE approved units: To prevent an electrical shock hazard between the appliance and other appliances or metal parts in close vicinity, an equalization-bonding stud is provided. An equalization bonding lead must be connected to this stud and the other appliances / metal parts to provide sufficient protection against potential difference. The terminal is marked with the following symbol.

Hard wired models:

Hard wired models must be equipped with a country certified external allpole disconnection switch with sufficient contact separation.

If a power cord is used for the connection of the product an oil resistant cord like H05RN or H07RN or equivalent must be used.

ELECTRI	CAL				
VOLTAGE	PHASE	CYCLE/HZ	AMPS	кW	CORD & PLUG
120	1	60	2.2	0.27	NEMA 5-15P 15A-125V PLUG
230	1	50	1.0	0.23	CEE 7 / 7 220-230V PLUG

OIL/SHORTENING REQUIREMENTS

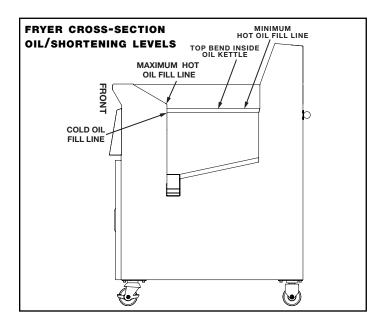
OIL/SHORTENING REQUIREMENTS

Each ASF-60G frypot requires 62-pounds (28 kg) of oil or shortening. Use only quality, high-grade oil/shortening in the fryer. The high moisture content of lower grade shortening will result in excessive foaming and boil over. The cold oil/shortening level requirement for the fryer is indicated below.

CAUTION

Cold oil or shortening expands as the temperature increases. To avoid injury and equipment damage, allow for expansion by filling to the cold oil fill line.

NOTE: ALWAYS maintain the proper level of shortening by adding fresh oil/shortening to the frypot whenever needed.



WARNING

FAILURE TO PLACE SOLID SHORTENING DIRECTLY ON THE BOTTOM OF THE FRYPOT CAN CAUSE SERIOUS EQUIPMENT DAMAGE.

⚠ DANGER



The flash point of shortening occurs at a lower temperature the longer the shortening is used. Discard any shortening showing signs of deterioration to avoid serious burns, fire, and property damage.

Check the quality of the oil/shortening in the frypots on a daily basis for signs of deterioration. Use an approved test kit. Signs of shortening deterioration include excessive boiling, smoking, foaming, bad taste, and rancid odor. Discard any shortening before it degrades to the point of affecting product quality. Always filter the oil on a regular basis and keep the frypot clean.

CAUTION

ENSURE THERE IS NO WATER IN THE FRYPOT BEFORE FILLING WITH OIL/SHORTENING. WHEN COOKING COMPOUNDS ARE HEATED TO COOKING TEMPERATURE, WATER IN THE FRYPOT WILL CAUSE OIL TO SPLATTER AND MAY BE A BURN HAZARD.

Remove ice crystals and ensure that food is dry before frying. Excessive water and ice can cause oil to splatter or overflow. Do not over fill the basket. Food needs to be surrounded by oil for best frying results.

Maximum shortening life is achieved by lowering the temperature of the fryer to 250°F (121°C) or turning the fryer station off when not in use. In multiple-station units, heat only the component fryers necessary to meet cooking needs.

CAUTION

FIRE OR EQUIPMENT DAMAGE CAN RESULT FROM IMPROPER SHORTENING LEVELS. THE LEVEL OF SHORTENING MUST ALWAYS BE ABOVE THE HEAT EXCHANGERS WHEN THE FRYER IS OPERATING.

THE REQUIRED SHORTENING LEVEL MUST ALWAYS BE ABOVE THE MINIMUM HOT OIL FILL LINE.

CAUTION



METAL PARTS OF THIS EQUIPMENT BECOME EXTREMELY HOT WHEN IN OPERATION. TO AVOID BURNS, ALWAYS USE HAND PROTECTION WHEN OPERATING THIS APPLIANCE.

START UP & GENERAL OPERATION

DANGER



BEFORE STARTING THE APPLIANCE, MAKE CERTAIN YOU DO NOT DETECT THE ODOR OF GAS.

IF THE ODOR OF GAS IS DETECTED:

- DO NOT attempt to light any appliance.
- DO NOT touch any electrical switches.
- Extinguish any open flame.
- Use a telephone OUTSIDE THE PROPERTY & IMMEDIATELY contact your gas supplier.
- If unable to contact your gas supplier, contact the fire department.

NOTE: Perform an initial Boil-Out to clean and sanitize the fryer battery before operating.

- **1.** Service is to be performed by an authorized Alto-Shaam service agent.
- **2.** Ensure all local electrical codes, fire codes, and all other requirements such as hood installation have been met in the process of installation.
- **3.** Open front access door and ensure Kettle Drain valve is in the **CLOSED** position. The handle should be rotated clockwise until it stops.
- **4.** Fill frypot with frying compound as indicated. (SEE ILLUSTRATION ON THE OIL/SHORTENING REQUIREMENTS PAGE)
- **5.** The Master Power Switch is located behind the front access door. Turn Master Power Switch **"ON."**
- **6.** Press the **CONTROL RESET** button.
- **7. "READY"** will be displayed when fryer reaches set temperature.

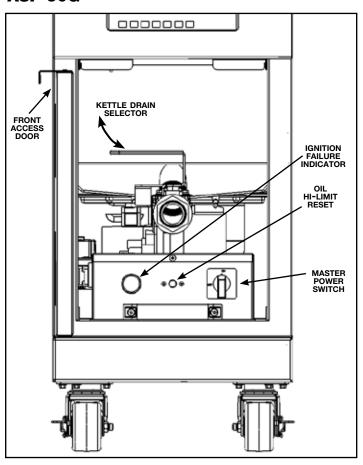
More detailed operating guidelines along with information on programming are located within this manual.

8. To shutdown the fryer, turn the Master Power Switch located behind the front access door to the **"OFF"** position.

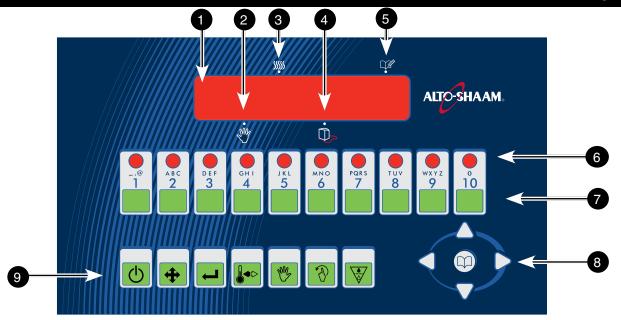
NOTE:

FOR YOUR PROTECTION The fryer is furnished with a hi-limit safety shutoff that will disengage the control if the frying compound temperature in the frypot would ever exceed 406°F (208°C). The **LED** will display "**HI**", the heat will shut off, the timer will be cancelled, and a constant alarm will sound. In this event, allow the frying compound temperature to drop below 375°F (191°C). Open the front access door and press the **OIL HI-LIMIT RESET** button for a period of 3 seconds to restart the control.

ASF-60G



PANEL IDENTIFICATION



- 1. LED DISPLAY
- 2. HOLD INDICATOR
- 3. HEAT INDICATOR
- 4. MELT CYCLE INDICATOR
- 5. PROGRAM INDICATOR
- **6. PRODUCT KEY INDICATOR LIGHTS:** Illuminate during active cook cycle or programming mode.
- 7. PREPROGRAMMED PRODUCT KEYS: Press to start a cook cycle. Also used in programming. REPLACEABLE MENU STRIP: Make menu changes quickly and easily.
- **8. PROGRAMMING CENTER:** Easy cell phone-like programming. Access programming mode, preprogrammed menu items, and change cooking parameters.
- **9. FEATURE KEYS:** Used to access programming functions and controller features.

FEATURE KEYS



SCAN KEY: Shows time left between recipe / baskets

ENTER KEY: Used while entering your own menu / time

■ TEMP TOGGLE CLEAR KEY

HOLD KEY: Displays remaining hold time

SETBACK KEY: Reverts to reduced oil temperature while fryer is idle

FILTER KEY (NOT ENABLED)

LEFT BASKET (1-5) PRODUCT KEY PRESET TIMES:

1 - 2:45 minutes

2 - 3:00 minutes

3 - 3:15 minutes

4 - 3:30 minutes

5 - 3:45 minutes

RIGHT BASKET (6-10) PRODUCT KEY PRESET TIMES:

6 - 2:45 minutes

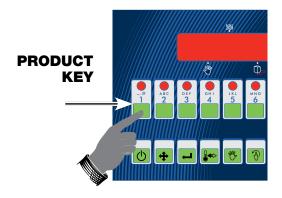
7 - 3:00 minutes

8 - 3:15 minutes

9 - 3:30 minutes

10 - 3:45 minutes

OPERATING THE CONTROL



Start a Cook Cycle

Press any product key to start a cook cycle. If the key is programmed, the cooking time will be displayed and will immediately start to count down in minutes and seconds. *DONE* will display when the cook cycle has ended.

The pressure solenoid will also close if programmed to do so, or a basket lift will lower if so equipped. If DONE is displayed immediately and the unit starts to beep, the product key being pressed is not programmed.

Stop a Cook Cycle

Press and hold an active product key for 3 seconds. Timing will stop, and basket will lift if so equipped.

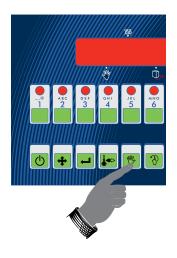
Respond to a DONE Alarm

Cancel the signal by pressing the same product key used to start the cook cycle.

Action Alarms



If the controller is programmed for action alarms, they will signal at a preset time during the cooking cycle. The signal, a dual-rhythm beeping, will last 5 seconds and then self-cancel. The display will flash the action alarm time and the controller will start counting toward 0:00.



Holding Timers

If the product menu is programmed with holding times, they will automatically start counting upon expiration of the cook cycle.

When there are active hold times, the HOLD \heartsuit indicator light will be lit.

To view all active hold times, press and hold the $^{\mbox{$W$}}$ key. Upon expiration, the timer will display HOLD and pulse with a beep.

To Cancel, press the W key.

OPERATION

Check Product Counts

Press and hold the \bigcap key for 3 seconds. *COUNTS* will be displayed.

number of cooks that were completed on that key. To see the number for each key, continue to press the \mathcal{M} key and each product will display *PROD X* then the number of cooks.

ALTO-SHAAM

Resetting the Product Counts

Once you go through all keys, the display will show CLRPROD then NO. Use the left and right arrow keys to toggle between YES and NO. Choose YES to reset your product count or NO to save the cook counts that have already been completed. Then press the \bigcap key.

The display will show *GLOBAL*. This is the total product count of all keys combined. Press the M key again. CLRGLOBL then NO will be displayed. Use the left and right arrow keys to toggle between YES and NO. Choose YES to reset your total product count or NO to save the total cook counts that have already been completed Then press the M key.

TOTALXTD is displayed, then a number. Press the \square key again.

Exit Product Counts

COUNTS will be displayed. Press the up arrow key. EXIT will be displayed. Press the \bigcap key. The controller will exit programming mode.

Display
Descriptions



Controller is in Operating Mode and a cook cycle is in progress.



Controller is in Operating Mode. Actual vat temperature is within the proper cooking temperature range. The vat is ready to start a cook cycle.



Action alarm status is displayed.



Controller is in Appliance Type Programming Mode.



Controller is waiting for a pass code to be entered.



Controller is in Operating Mode and a cook cycle has been completed.

Controller is in Operating Mode. The actual vat temperature is more than 40 degrees above the highest programmed vat temperature. A continuous audible signal will sound.

OPERATION

Display Descriptions (continued)

Controller is in Operating Mode. The actual vat temperature is more than 10 degrees below the programmed vat temperature.

Controller's probe is either open or shorted. Display will be accompanied with an audible alarm if shorted. Check or replace the probe.

PRODUCT Controller is in Product Key Programming Standby mode.

5457 Controller is in System Programming Standby Mode.

TEMP Stage cooking temperature.

TETPUNIT Controller is in Fahrenheit or Celsius Programming Mode.

TIME Stage cooking time.

T | T | N G Stage timing mode (flex or straight).

PRODUCT KEY PROGRAMMING

10-button controllers have a single, dual-purpose display that will alternate information; for example:

TIME then 2:00

Recipe Programming Code (1724) Manager ENTER PROGRAMMING MODE.

Press and hold the \infty key for 3 seconds.



COUNTS

Press the down arrow key.



PROGRAM

PROGRAM will be displayed. Press the \bigcap key.



PRODUCT KEY PROGRAMMING (CONTINUED)

CODE

Type in 1 7 2 4 using the product keys. Press the key.



RECIPE

Press the key. All product key LEDs will light up.



PRODUCT

PROGRAM A PRODUCT KEY.
Press the product key you want to program. Press the key.



Depending on model, you can either press the \(\subseteq \) key to change all programmable settings or you can scroll using the arrow keys to any of the specific options.

Note: The Recipe Library contains more than 100 different choices.

RLL

Press D.

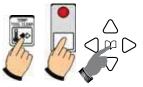
NAME XXXXXXXX

SET PRODUCT DISPLAY NAME. NAME will be displayed then the actual product name. Use the up and down arrow keys to scroll through the library. Press



TIME XX:XX

SET COOK TIME. Actual set time will be displayed. To change, press toggle clear to change the time to zero. Type in a new time using the product keys. Press .



TIMING

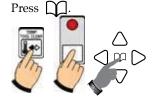
STRRIGHT FLEX SENSITIV

SET TIMING MODE. Use the left and/or right arrow keys to choose Straight, Flex or Sensitivity. Press .



ALMTIME1 XX:XX

SET ACTION ALARM. Actual alarm time 1 will be displayed. To change, press toggle clear to change the time to zero. Type in a new time using the product keys.



ALMNAMET XXXXXXXX

SET ACTION ALARM
NAME. ALMNAME1 will be
displayed, then the actual
action alarm name. Use the up
and down arrow keys to scroll
through the library. Press
to either go to next action
alarm name, or continue
through programming.



HOLDTIME XX:XX

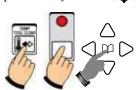
RLL

EXIT PROGRAMMING MODE. Press the up arrow key.



EXIT

 $\text{Press} \ {\bigcap}.$

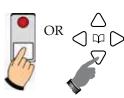


OPERATION

PRODUCT KEY PROGRAMMING (CONTINUED)

PRODUCT

Either press another product key to program and repeat the programming instructions, or continue by pressing the down arrow key.



SET TEMP

SET GLOBAL
TEMPERATURE.
Press .



XXX

SET TEMP, then Actual Temp will be displayed. To change, use the number keys and then press \(\infty\).



To Exit, press the down arrow key.



EXIT

Press D.

RECIPE

Press the up arrow key.



EXIT

Press \square .

SYSTEM PROGRAMMING

Enter System Programming Mode. Press and hold for 3 seconds.

COUNTS

Press the down arrow key.



PROGRAM

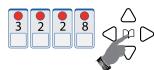
PROGRAM will be displayed. Press \square .



SYSTEM CODE (3228)**MANAGER**



Type in 3 2 2 8 using the product keys. Press M.



SYSTEM

Press .

RPPLIANC



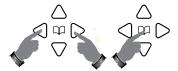
SET APPLIANCE MODE.

Use the left and/or right arrow keys to choose Gas, Electric or Generic. Press .



Note: Preheat is also known as a melt cycle. Yes is used for solid shortening, No is used for oil.

SET CONTROL TYPE. Use the left and/or right arrow keys to choose Temperature or Time Control. Press .

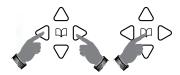


TEMPUNIT



SET TEMPERATURE SCALE.

Use the left and/or right arrow keys to choose Fahrenheit (F) or Celsius (C). Press .



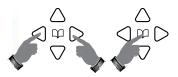
PREHERT



SET PREHEAT MODE.

Use the left and/or right arrow keys to choose Yes or No.

Press M.



SET COOK TIME UNIT.

Use the left and/or right arrow keys to choose Minutes/ Seconds or Hours/Minutes.

Press [].



SYSTEM

EXIT SYSTEM PROGRAMMING MODE.

Press the up arrow key.



EXIT

Press \square .

You have now EXITED System Programming Mode and can operate the controller.

OPERATION

PROGRAMMING CUSTOM PRODUCT AND ACTION ALARM NAMES TO THE LIBRARY

ENTER LIBRARY PROGRAMMING MODE. Press and hold \(\sum_{\text{in}} \) for 3 seconds.



COUNTS

Press the down arrow key.



Press \square .

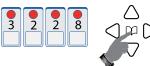
PROGRAM

SYSTEM CODE (3228)**MANAGER**



CODE

Type in 3 2 2 8 using the



 $\bigcirc \Box \Box \bigcirc$

Press the down arrow key to select either PRODLIBR or ALRMLIBR.



PRODLIBR *RLRMLIBR*

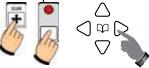
Choose either PRODLIBR (Product Library) or ALRMLIBR (Action Alarm Library) by pressing \square .

PROGRAM will be displayed.



N

A flashing dash will be displayed. Press the 💠 key and use the product keys to spell a new word. Press the right arrow key to advance to the next character position.



117 88

Continue spelling the word. When done, press



RDD

TO SAVE WORD, press again. Skip to Exit Library Programming.



TO CANCEL OR MODIFY, see next step.

TO CANCEL OR MODIFY **WORD**, press the left or right arrow keys to choose CANCEL or MODÍFY.

IF YOU CHOOSE CANCEL:

CANCEL

Press to EXIT and cancel the word.

PRODLIBR *ALRALIBR*

EXIT LIBRARY PROGRAMMING. Use the up or down arrow

keys until display reads EXIT.

IF YOU CHOOSE MODIFY:

MODIFY

Press the + key to go back and modify the word.

Press M.

RERDY

You have now EXITED Library Programming Mode and can operate the controller.

ALL SUGGESTED FRYING TIMES ARE BASED ON A FULL LOAD OF PRODUCT

Remove ice crystals and ensure that food is dry before frying. Excessive water and ice can cause oil to splatter or overflow. Do not over fill the basket. Food needs to be surrounded by oil for best frying results.

-	ITEM	MINUTES	TEMPERATURE	DISPLAY	
	1. Fries (FROZEN)	3:30	350°F (177°C)	Fries	
EYS	2. Chicken Nuggets (FROZEN)	3:30	350°F (177°C)	Nuggets	
A A	3. Fish, Breaded (FROZEN)	4:30	350°F (177°C)	Fish	
OGRA	4. Chicken Pieces, Breaded (FRESH)	17:00	340°F (171°C)	Chicken	
PRO	5. PRODUCT A			ProductA	
	6. PRODUCT B			ProductB	
	ITEM	MINUTES		TEMPERATURE	
Арј	petizer	3:30		350°F (177°C)	
Bre	aded Cauliflower	3:30		340°F (171°C)	
Bre	aded Fish	Per pkg. instructions		340°F (171°C)	
Bre	aded Mac & Cheese	3:30		340°F (171°C)	
Bre	aded Mushrooms	3:30		340°F (171°C)	
Bro	ccoli Cheese Nuggets	2:30		350°F (177°C)	
Che	ese Cake, Fried	8:30		350°F (177°C)	
Che	ese Nuggets	1:30		350°F (177°C)	
Chi	cken Breasts (FRESH)	12:00-17:00		315°F (157°C)	
Chi	cken Breasts (FROZEN)	20:00		330°F (166°C)	
Chi	cken Fried Steak	4:00		350°F (177°C)	
Chi	cken Gizzards (fresh)	3:30		350°F (177°C)	
Chi	cken, Legs & Wings (fresн)	12:00-17:00		315°F (157°C)	
Chi	cken Legs (FROZEN)	18:00		330°F (166°C)	
Chi	cken, Patty	6:00		350°F (177°C)	
Chicken Pieces - MRB (FROZEN)		17:00		340°F (171°C)	
Chicken Strips		6:00		340°F (171°C)	
Chicken Tenderloins (FRESH)		3:00		350°F (177°C)	
Chicken Tenders, Breaded (FROZEN)		3:30		350°F (177°C)	
Chicken Wings (FRESH)		3:30		350°F (177°C)	
Chi	cken Wings (FROZEN)	15:00		330°F (166°C)	
Cla	m Strips	2:00		340°F (171°C)	
Cor	n Dogs	10:00		350°F (177°C)	
Cro	am Cheese Jalapeño Poppers	3:30		340°F (171°C)	

THE TIMES AND TEMPERATURES ARE SUGGESTED GUIDELINES ONLY. ALL COOKING SHOULD BE BASED ON INTERNAL PRODUCT TEMPERATURES. DUE TO VARIATIONS IN PRODUCT QUALITY, WEIGHT, AND DESIRED DEGREE OF DONENESS, THE COOKING TIMES AND TEMPERATURES MAY NEED TO BE ADJUSTED ACCORDINGLY. ALWAYS FOLLOW LOCAL HEALTH (HYGIENE) REGULATIONS FOR ALL INTERNAL TEMPERATURE REQUIREMENTS.

OPERATION

ALL SUGGESTED FRYING TIMES ARE BASED ON A FULL LOAD OF PRODUCT

Remove ice crystals and ensure that food is dry before frying. Excessive water and ice can cause oil to splatter or overflow. Do not over fill the basket. Food needs to be surrounded by oil for best frying results.

SUGGESTED FRYING TIMES					
ITEM	MINUTES	TEMPERATURE			
Eggplant	4:00	340°F (171°C)			
Egg Rolls (frozen)	5:00	340°F (171°C)			
Fries, Crinkle-Cut	5:00	340°F (171°C)			
Fries, Seasoned	4:00	340°F (171°C)			
Fries, Sour Cream & Chive	4:00	340°F (171°C)			
Fries (fresh)	5:00	340°F (171°C)			
Fries, Thin Cut	3:30	340°F (171°C)			
Hash Brown Circles	4:00	340°F (171°C)			
Jalapeno Peppers, Stuffed	4:00	350°F (177°C)			
Mozzarella Sticks, Battered or Breaded	Per pkg. instructions	340°F (171°C)			
Mushrooms, Breaded	3:30	350°F (177°C)			
Onion Rings	3:00	340°F (171°C)			
Pork Chops (FRESH)	10:00	340°F (171°C)			
Pork (fresh)	12:00	340°F (171°C)			
Potato Chips (fresh)	2:45	325°F (163°C)			
Potato Wedges	3:00	350°F (177°C)			
Quesadilla Rolls	3:30	350°F (177°C)			
Shrimp	3:30	340°F (171°C)			
Vegetables	3:00	350°F (177°C)			
Zucchini, Breaded (fresн)	3:30	350°F (177°C)			

THE TIMES AND TEMPERATURES ARE SUGGESTED GUIDELINES ONLY. ALL COOKING SHOULD BE BASED ON INTERNAL PRODUCT TEMPERATURES. DUE TO VARIATIONS IN PRODUCT QUALITY, WEIGHT, AND DESIRED DEGREE OF DONENESS, THE COOKING TIMES AND TEMPERATURES MAY NEED TO BE ADJUSTED ACCORDINGLY. ALWAYS FOLLOW LOCAL HEALTH (HYGIENE) REGULATIONS FOR ALL INTERNAL TEMPERATURE REQUIREMENTS.

DAILY CLEANING & MAINTENANCE

igtriangle danger



DISCONNECT UNIT FROM POWER SOURCE BEFORE CLEANING OR SERVICING.

THOROUGHLY CLEAN DAILY

The cleanliness and appearance of this unit will contribute considerably to operating efficiency and savory, appetizing food. Good equipment kept clean works better and lasts longer.

- **1.** Disconnect unit from power source, and let cool.
- **2.** Remove all detachable items. Clean these items separately with a good grease solvent or commercial detergent. Rinse well and dry.
- **3.** Clean control panel, door vents, door handles, and door gaskets thoroughly since these areas harbor food debris. Rinse by wiping with sponge and clean warm water. Wipe dry with a clean cloth.

DANGER



TO AVOID SERIOUS PERSONAL INJURY DO NOT STAND ON THE FRYER OR FRYER COVER. THE FRYER COVER IS DESIGNED TO HOLD A MAXIMUM OF 10-POUNDS (4,5 KG) OF WEIGHT.

4. To help maintain the protective film coating on polished stainless steel, clean the exterior of the unit with a cleaner recommended for stainless steel surfaces. Spray the cleaning agent on a clean cloth and wipe with the grain of the stainless steel.

NOTE: Avoid the use of abrasive cleaning, compounds, chloride based cleaners, or cleaners containing quaternary salts. Never use hydrochloric acid (muriatic acid) on stainless steel.

Always follow appropriate state or local health (hygiene) regulations regarding all applicable cleaning and sanitation requirements for foodservice equipment.

DANGER



AT NO TIME SHOULD THE INTERIOR OR EXTERIOR BE STEAM CLEANED, HOSED DOWN, OR FLOODED WITH WATER OR LIQUID SOLUTION OF ANY KIND. DO NOT USE WATER JET TO CLEAN.



SEVERE DAMAGE OR ELECTRICAL HAZARD COULD RESULT.

WARRANTY BECOMES VOID IF APPLIANCE IS FLOODED

ACAUTION



TO PROTECT STAINLESS STEEL SURFACES, COMPLETELY AVOID THE USE OF ABRASIVE CLEANING COMPOUNDS, CHLORIDE BASED CLEANERS, OR CLEANERS CONTAINING QUATERNARY SALTS. NEVER USE HYDROCHLORIC ACID (MURIATIC ACID) ON STAINLESS STEEL. NEVER USE WIRE BRUSHES, METAL SCOURING PADS OR SCRAPERS.

CLEANING

BOIL-OUT PROCEDURE

NOTE: Perform an initial boil-out to clean and sanitize the fryer before operating.

Carbonized deposits along with an accumulation of oil will eventually build-up on the interior of the frypot as well as fryer accessories. It is important to periodically remove these deposits, not only to maintain fryer efficiency, but also to provide the highest product quality.

NOTE: Always wear eye protection or a face shield and protective rubber gloves when cleaning the frypot as boil-out chemical is an alkaline solution and can cause severe burns.

NOTE: Because each fryer is controlled separately, the following procedure must be followed for every unit in a fryer battery.

NOTE: Manual Boil-Out can only be performed when the actual temperature of the frypot is less than 210°F (99°C).

CAUTION

BEFORE ENTERING THIS PROGRAM, MAKE CERTAIN THE FRYPOT IS EMPTY OF ALL OIL OR SHORTENING.

CAUTION

TO AVOID DAMAGING THE PUMP AND CONTAMINATING CLEAN OIL WITH BOIL-OUT CHEMICAL ON UNITS EQUIPPED WITH A FILTRATION SYSTEM, NEVER ALLOW BOIL-OUT SOLUTION OR RINSE WATER TO CIRCULATE THROUGH THE FRYER PUMP SYSTEM.

CAUTION

BOIL-OUT SOLUTION AND SURROUNDING METAL SURFACES BECOME EXTREMELY HOT. TO AVOID BURNS, ALWAYS USE HAND PROTECTION WHEN PERFORMING THE BOIL-OUT FUNCTION AND FOLLOW THE MANUFACTURER'S SAFETY INSTRUCTIONS FOR THE BOIL-OUT PRODUCT BEING USED.

CAUTION

DO NOT LEAVE THE FRYER UNATTENDED DURING THE BOIL-OUT PROCESS. THE FRYER MUST BE CONTINUOUSLY MONITORED FOR BOIL-OVER CONDITIONS, PARTICULARLY IN HIGH-ALTITUDE LOCATIONS.

NOTES: Before and during boil-out:

Before draining any kettle, be sure the optional mobile oil caddy or heat safe container is in its location underneath the drain(s).

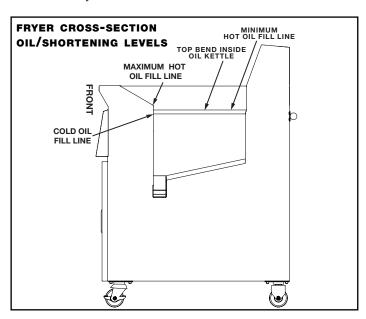
DO NOT DRAIN MORE THAN ONE KETTLE AT A TIME. THE OPTIONAL MOBILE OIL CADDY ONLY HAS ENOUGH CAPACITY FOR ONE KETTLE.

- **1.** Open the front access door. Place the mobile oil caddy under the drain. Attach and twist on drain extension pipe [PP-29479] to the drain valve. *Slowly* rotate frypot Kettle Drain valve to **"OPEN"** to drain oil.
- **2.** While wearing heat resistant gloves, wipe excess oil out of inside of frypot with paper towel or clean rag.
- **3.** Empty the oil from the mobile oil caddy. Wash the oil caddy, rinse with clean water, and dry caddy thoroughly.
- Rotate the drained fryer's Kettle Drain valve clockwise until rotation stops and the drain valve is "CLOSED."

CAUTION

KEEP A CONTAINER OF COLD WATER ON HAND DURING BOIL-OUT IN CASE OF BOIL-OVER. IF BOIL-OVER IS IMMINENT, IMMEDIATELY POUR COLD WATER INTO FRYPOT TO QUICKLY REDUCE SOLUTION TEMPERATURE. TURN OFF MASTER POWER SWITCH AND ALLOW SOLUTION TO COOL. WHEN THE SOLUTION HAS COOLED, RE-ENTER THE BOIL-OUT MODE.

5. Fill the fryer to the maximum oil fill line with water.



BOIL-OUT PROCEDURE

- **6.** Add boil out solution. Carefully follow the manufacturer's directions for mixing the boil-out solution.
- 7. Turn the Master Power Switch (located behind the front access door) to the "ON" position and press the CONTROL RESET.
- **8.** To enter Boil Mode, press and hold the for 3 seconds. **"COUNTS"** will be displayed.
- 9. Press the up △ or down ▽ arrow keys until "BOIL" is displayed, then press □. "BOIL" will be displayed. Using a separate timer, allow the frypot to boil-out for 10 minutes.
- **10.** After the 10 minute boil-out period, turn the Master Power Switch located behind the front access door to the **"OFF"** position.
- **11.** Wearing protective gloves to avoid burns, scrub the inside of the frypot with a long-handled scrub brush.
- **12.** Place an empty and dry heat-safe container under the drain. Rotate the Kettle Drain valve to the **"OPEN"** position. **The handle should be rotated counterclockwise until it stops.** Allow the boilout solution to completely drain into the heat-safe container. Discard boil-out solution. Return the heat safe container beneath the fryer.
- **13.** Making sure the Kettle Drain valve is **"OPEN"**, rinse all boil-out solution from frypot, drain, burner holes, oil fill hole, etc. Follow the boil-out solution manufacturer's additional boil-out instructions to rinse the frypot in order to neutralize boil-out cleaner residue. Discard rinse solution.
- **14.** There may be residual boil-out solution in the oil fill-hole and tube. This must be flushed out and discarded separately before filling the tank with new oil to avoid contamination of new oil.

Rinse frypot with a small amount of water.

15. Following the boil-out and rinse procedure, wipe dry all accessible interior metal surfaces and interior accessories with a clean, dry cloth to remove remaining moisture. Clean and dry the fry baskets separately.

CAUTION

ENSURE THERE IS NO WATER IN THE FRYPOT BEFORE FILLING WITH OIL/SHORTENING. WHEN COOKING COMPOUNDS ARE HEATED TO COOKING TEMPERATURE, WATER IN THE FRYPOT WILL CAUSE OIL TO SPLATTER AND MAY BE A BURN HAZARD.

NOTE: Make sure the inside of the frypot, the drain opening and all parts that come into contact with new oil/shortening are as dry as possible.

16. Wipe the exterior of the fryer cabinet with a degreaser/sanitizer suitable for use on food contact surfaces. Always follow the manufacturer's instructions and/or mixing directions for proper solution strengths.

Wipe exterior stainless steel surfaces with the grain of the metal and avoid the use of abrasive pads, steel wool, or metal implements.

- **17.** Rotate Kettle Drain valve to **"CLOSED"** position.
- **18.** Remove drain extension pipe [PP-29479] from the drain valve.
- **19.** Fill tank with new oil or shortening.

SERVICE

CONTROL TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
No power	Circuit breaker OFF	Check and reset
	Appliance not plugged in	Plug in cord
	Defective 24VAC transformer	Replace transformer
		Replace controller
No sound	Inoperable speaker	Replace controller
Button problem	Inoperable key	Replace controller
PROBE is displayed	Defective temperature probe	Replace temperature probe
	Probe not plugged in	Plug in probe
Reading wrong temperature	Defective temperature probe	Replace temperature probe.
Not heating	Defective element, relay, con-	Replace defective part
	tactor or gas valve	
	Defective controller	Replace controller

UNIT TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
No power	Circuit breaker OFF	Check and reset
	Appliance not plugged in	Plug in cord
	Drain switch turned to the "OPEN" position	Turn drain switch to the "CLOSED" position
	Master switch turned to the "OFF" position	Turn master switch to the "on" position
Fryer will not heat	Gas valve is in the "OFF" position	Turn gas valve to the "on" position
	Gas hose is not connected	Connect gas hose
	Hi-limit is tripped	Press the hi-limit reset button located behind the front access door
	No oil in frypot	Add oil to frypot
Baskets will not drop	Fuse is blown on basket lift relay board	Replace fuse
	Interference with basket lift mechanism	Check basket lift mechanism and remove interference

CAUTION

THIS SECTION IS PROVIDED FOR THE ASSISTANCE OF QUALIFIED SERVICE TECHNICIANS ONLY AND IS NOT INTENDED FOR USE BY UNTRAINED OR UNAUTHORIZED SERVICE PERSONNEL.



CAUTION

IT IS RECOMMENDED THIS APPLIANCE BE INSPECTED BY A QUALIFIED SERVICE TECHNICIAN AT REGULAR INTERVALS AS PART OF A STANDARD KITCHEN MAINTENANCE PROGRAM.



EXTENDED LIMITED FRYPOT WARRANTY

Alto-Shaam, Inc. warrants to the original purchaser that any frypot that is found to be defective in material or workmanship will, at Alto-Shaam's option, subject to provisions hereinafter stated, be replaced with a new or rebuilt frypot.

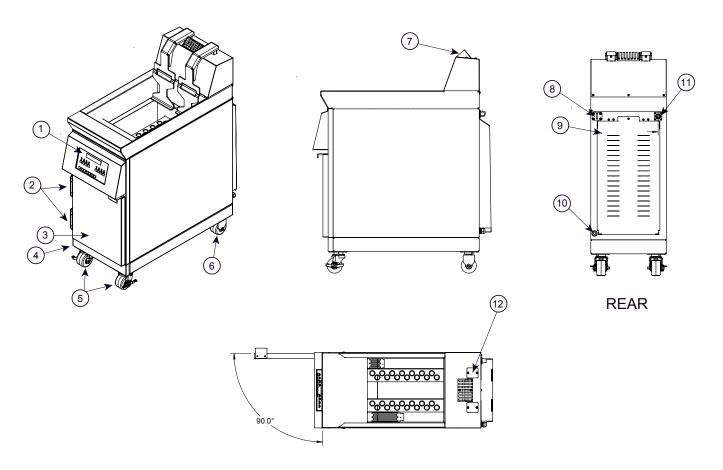
The labor warranty remains in effect for three (3) years from the shipping date. Alto-Shaam will bear shipping and normal labor charges for installation performed during standard business hours, and excluding overtime, holiday rates or any additional fees.

The parts warranty remains in effect for seven (7) years from the shipping date. Following the initial three (3) year labor warranty, Alto-Shaam will replace the frypot only, with freight, labor and all additional charges at the full responsibility of the owner/operator.

Extended frypot warranty coverage is subject to all remaining provisions as set forth in Alto-Shaam's standard published warranty.

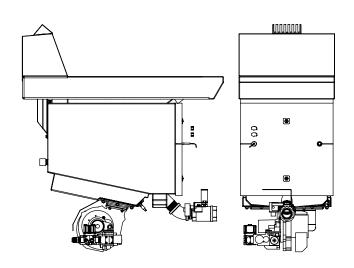
SERVICE

ASF-60G

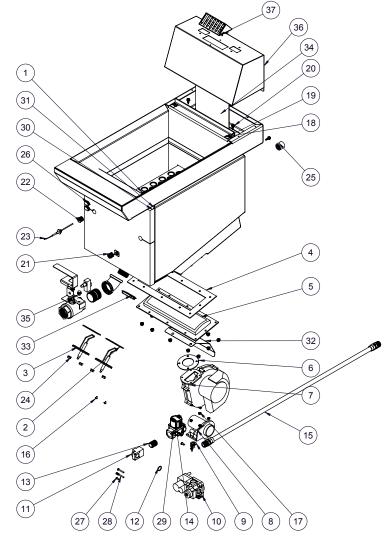


ITEM	P/N	DESCRIPTION	QTY
1	PE-29469	Panel Overlay	1
2	HG-2015	Hinge Assembly	2
	SC-2072	Screws for Hinge Assembly	6
3	5014682	Door Assembly with Hinges, ASF-60	1
4	1012713	Caster Plate	4
5	CS-28098	Caster, Swivel with brake, left side	1
	CS-28099	Caster, Swivel with brake, right side	1
	SC-28891	Screws for Casters	16
6	CS-28101	Caster, Rigid	2
7	1008769	Exhaust Vent	1
8	BT-26884	Bracket, Tether restraint	1
9	1013139	Panel, Back	1
10	BU-3964	Bushing, Electrical connection	1
11	FT-27961	Fitting, Gas connection, 1/2"	1
12	1013188	Plate Cover	2

ASF-60G KETTLE ASSEMBLY - 5014395 SHOWN



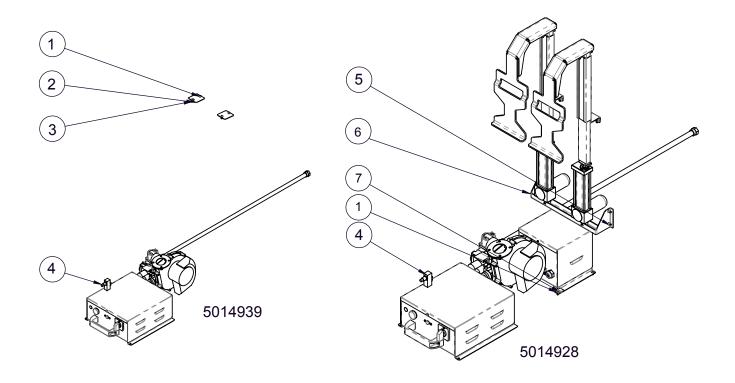
ITEM	P/N	DESCRIPTION	QTY
1	5009432	Kettle, ASF-60G	1
2	SA-27007	Seal, Spark Plug	2
3	PI-27001	Pin, Flame Sensor	2
4	SA-27005	Seal, Gas Burner	1
5	BN-34226	Burner, HE Gas Fryer	1
6	SA-27006	Seal, Fan Burner	1
7	FA-34232	Fan, Gas Fryer, 120V	1
8	VA-27068	Valve, Venturi	1
9	SA-27930	Seal, Gas Valve	1
10	VA-34260	Valve, Safety, 24V	1
11	VA-27081	Elbow, Flange, Venturi	1
12	OR-27249	O-Ring, 0.812 O.D. x .94 Diameter	1
13	NP-26220	Nipple, 1/2"-14 NPT	1
14	VA-34531	Gas Valve, 24V, 120V, 1/2 NPT	1
15	HO-28689	Hose, 1/2" I.D., Corrugated	1
16	SC-2459	Screw, Phillips, 8-32	2
17	NU-27851	Nut, Hex, 5mm with Star Washer	4
18	1008588	Bracket, Chimney Holding	2
19	SC-2661	Screw, Phillips, 10-32	2
20	SC-27384	Screw, Self Drilling, #10-16	4
21	BU-27277	Bushing, Reducing	1
22	BU-29470	Bushing, SS, Reducing	1
23	PR-34998	Probe, Temperature Sensor	1
24	NU-29475	Nut, 1/4"-20 KEPS	16



ITEM	P/N	DESCRIPTION	QTY
25	CP-29478	Cap, 1/2" NPT	1
26	CR-34329	Connector, -2 Conductor	1
27	SC-22273	Screw, Pan Head, M4 x 6MM	2
28	SC-29276	Screw, M4x30MM	2
29	SC-22766	Screw, Pan Head Phillips	5
30	IN-22265	Insulation, Kettle Front	1
31	IN-22265	Insulation, Kettle Top	1
32	1012657	Guard, Drip Combustion Fan	1
33	GL-29744	Sight Glass	1
34	5014895	Flue Assembly	1
35	5014881	Valve Assembly	1
36	5014906	Cover, Chimney	1
37	1008769	Body, Chimney	1

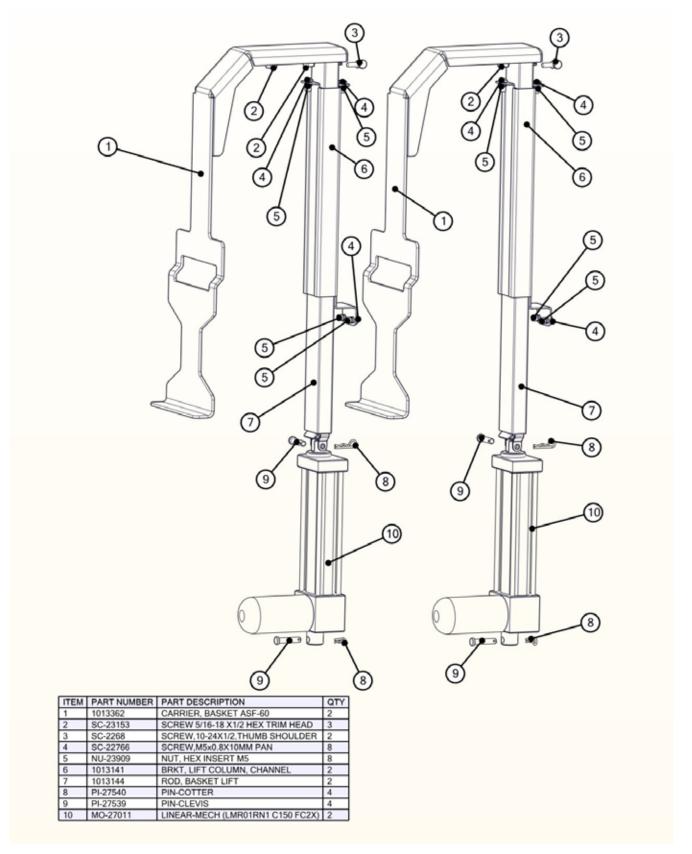
SERVICE

ASF-60G 120V ELECTRICAL PACKAGES



ITEM	P/N	DESCRIPTION	120V with Lift Assembly 5014928 - Qty	120V w/o Lift Assembly 5014939 - Qty
1	SC-22766	Screw, M5 Pan Head	4	4
2	1013188	Lift Hole Cover Plate	-	2
3	NU-22289	Nut, M5 Hex	-	4
4	SW-33148	Switch, Snap Action	1	1
5	SC-2661	Screw, 10-32 x 1/2" TRH PHH	4	-
6	5014907	Bracket, Lift Lower Assembly	1	-
7	1008588	Bracket, Chimney Holding, ASF-60	2	-

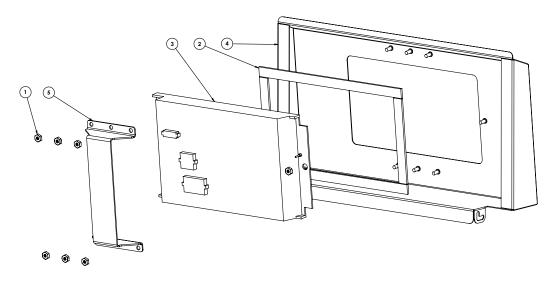
LIFT ASSEMBLY - 5014863 shown



SERVICE

CONTROL PANEL ASSEMBLY, ASF-60G - 5013197 SHOWN

ITEM	DESCRIPTION	P/N	QTY
1	Nut, #8-32 UNC KEPS ZP	NU-26526	8
2	1/2" Self Adhesive Gasket 3ft	GS-2019	1
3	Control, ASF-60, 10 Button	CC-34997	1
4	Weldment, Control Panel 15"	5013196	1
5	Bracket, Controller Support	1011993	1
6*	Cable Harness Control	CB-34999	1



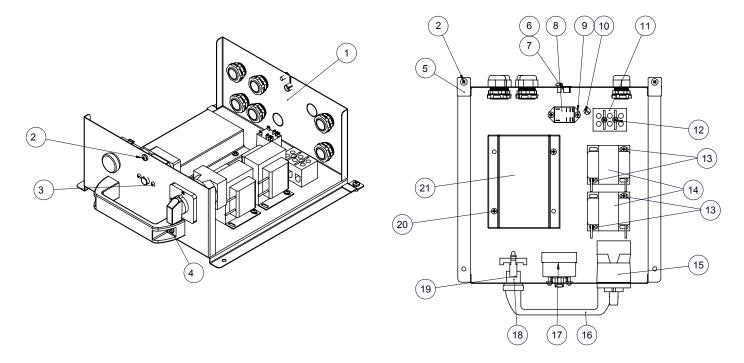
VALVE DRAIN ASSEMBLY, ASF-60G - 5014881 shown

ITEM	DESCRIPTION	P/N	QTY
1	Handle, Vinyl Slip-on	SL-29640	1
2	Drain Valve Handle	1013117	1
3	Screw, 1/4-20 x 1/2" Hex Head	SC-22729	2
4	Lock Washer, 1/4"	WS-2294	2
	Flat Washer, 1/4"	WS-22094	4
5	Switch Bracket	1013118	1
6	Elbow, 1-1/4" x 45° Female S/S	EB-28948	1
7	Nipple, 1-1/4" NPT x 1 5/8" Long Thread	NP-28949	1
8	Ball Valve, 1-1/4" NPT	VA-28950	1
9	Pipe - Drain, 1-1/4"	PP-29479	1

Part numbers and drawings are subject to change without notice.

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ELECTRICAL ASSEMBLY, 120V - ASF-60G



5014823 120V CONFIGURATION

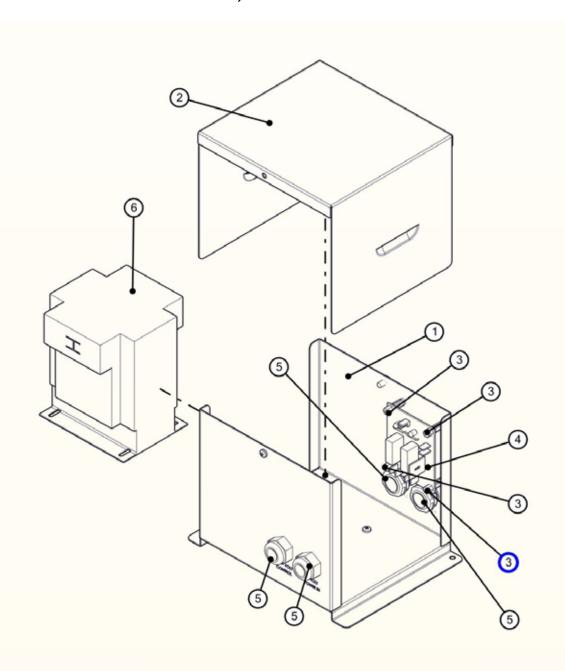
ITEM	P/N	DESCRIPTION	Qty
*	77450	120V Wiring Diagram	1
1	1013069	120V Electrical Box	1
*	1013070	Electrical Box Cover	1
2	SC-22766	Screw, M5	4
3	SC-2254	Screw, 6-32 x 3/8" Round Pan Head	2
4	SC022466	Screw, Philips, 1/4-20 x 1"	2
5	1008588	Bracket, Chimney Holding	2
6	BU-2827	Bushing, Bearing, Nylon	1
7	SA-2924	Seal	1
8	RL-35000	Relay, Power, SPDT	1
9	SC-22500	Screw, Pan Head, 6-32 x 1/4"	2
10	SC-2190	Ground Screw	1
11	BK-3019	T-Block	1
12	SC-2365	Screw, Round Pan Head, 6-32	2
13	SC-22271	Screw, Pan Head, M4	4
14	TN-33282	Transformer, 230V/24V, 50A	2
15	SW-34254	Switch, Cam, for Single Phase	1

ITEM	P/N	DESCRIPTION	Qty
16	HD-26792	Handle	1
17	TT-34245	Thermostat, Hi-Limit	1
18	LT-34280	Light, Ignition Alarm	1
19	NU-2187	Nut, Acorn #18-8	2
20	SC-2069	Screw, Pan Head, 8-32 x 1"	2
21	BN-34266	Ignition Module, Starter	1
*	BU-3964	Bushing, Straight Strain Relief	6
*	CB-34330	Cable, Flame Sensor, Red	1
*	CB-34331	Cable, Flame Ignitor, Black	1
*	CB-34999	Cable, Control	2
*	CD-34094	Cord, Line	1
*	CR-33510	Connector, Terminal .187" Quick	1
*	CR-34318	Connector, Plug, 3 POS, 94V-0	1
*	CR-34646	Connector, 5 Conductor	6
*	LT-34281	Light, Alarm	1
*	PA-27057	Plate, Light Mounting	1

^{*} NOT SHOWN

SERVICE

ELECTRICAL ASSEMBLY, 5014722



BOM ID	Name	DESCRIPTION (config)	Qty
1	1012989	LIFT BOX	1
2	1012990	ELEC. LIFT BOX COVER	1
3	SP-33707	SPACER, SUPPORT, NYL, 1.4"	4
4	BA-35163	24V LIFT RELAY BOARD	1
5	BU-3964	BUSHING, STRAIGHT, STRAIN RELIEF	4
6	TN-34272	TRANSFORMER, 120V/240V-24V,150VA	1

TRANSPORTATION DAMAGE and CLAIMS



All Alto-Shaam equipment is sold F.O.B. shipping point, and when accepted by the carrier, such shipments become the property of the consignee.

Should damage occur in shipment, it is a matter between the carrier and the consignee. In such cases, the carrier is assumed to be responsible for the safe delivery of the merchandise, unless negligence can be established on the part of the shipper.

- 1. Make an immediate inspection while the equipment is still in the truck or immediately after it is moved to the receiving area. Do not wait until after the material is moved to a storage area.
- 2. Do not sign a delivery receipt or a freight bill until you have made a proper count and inspection of all merchandise received.
- 3. Note all damage to packages directly on the carrier's delivery receipt.
- 4. Make certain the driver signs this receipt. If he refuses to sign, make a notation of this refusal on the receipt.
- 5. If the driver refuses to allow inspection, write the following on the delivery receipt: *Driver refuses to allow inspection of containers for visible damage.*
- 6. Telephone the carrier's office immediately upon finding damage, and request an inspection. Mail a written confirmation of the time, date, and the person called.
- 7. Save any packages and packing material for further inspection by the carrier.
- 8. Promptly file a written claim with the carrier and attach copies of all supporting paperwork.

We will continue our policy of assisting our customers in collecting claims which have been properly filed and actively pursued. We cannot, however, file any damage claims for you, assume the responsibility of any claims, or accept deductions in payment for such claims.

LIMITED WARRANTY

Alto-Shaam, Inc. warrants to the original purchaser only that any original part that is found to be defective in material or workmanship will, at Alto-Shaam's option, subject to provisions hereinafter stated, be replaced with a new or rebuilt part.

The parts warranty period is as follows:

For the refrigeration compressor on Alto-Shaam Quickchillers™, five (5) years from the date of installation.

For the heating element on Halo Heat® cooking and holding ovens, as long as the original purchaser owns the oven. This excludes holding only equipment.

For all other parts, one (1) year from the date of installation or fifteen (15) months from the shipping date, whichever occurs first.

The labor warranty period is one (1) year from the date of installation or fifteen (15) months from the shipping date, whichever occurs first.

Alto-Shaam will bear normal labor charges performed during standard business hours, excluding overtime, holiday rates or any additional fees.

To be valid, a warranty claim must be asserted during the applicable warranty period. This warranty is not transferable.

THIS WARRANTY DOES NOT APPLY TO:

- 1. Calibration.
- 2. Replacement of light bulbs, door gaskets, and/or the replacement of glass due to damage of any kind.
- 3. Equipment damage caused by accident, shipping, improper installation or alteration.
- 4. Equipment used under conditions of abuse, misuse, carelessness or abnormal conditions, including but not limited to, equipment subjected to harsh or inappropriate chemicals, including but not limited to, compounds containing chloride or quaternary salts, poor water quality, or equipment with missing or altered serial numbers.
- 5. Damage incurred as a direct result of poor water quality, inadequate maintenance of steam generators and/or surfaces affected by water quality. Water quality and required maintenance of steam generating equipment is the responsibility of the owner/operator.
- 6. Damage caused by use of any cleaning agent other than Alto-Shaam's Combitherm® Cleaner, including but not limited to damage due to chlorine or other harmful chemicals. Use of Alto-Shaam's Combitherm® Cleaner on Combitherm® ovens is highly recommended.
- 7. Any losses or damage resulting from malfunction, including loss of product, food product, revenue, or consequential or incidental damages of any kind.
- 8. Equipment modified in any manner from original model, substitution of parts other than factory authorized parts, removal of any parts including legs, or addition of any parts.

This warranty is exclusive and is in lieu of all other warranties, express or implied, including the implied warranties of merchantability and fitness for a particular purpose. In no event shall Alto-Shaam be liable for loss of use, loss of revenue or profit, or loss of product, or for any indirect, special, incidental, or consequential damages. No person except an officer of Alto-Shaam, Inc. is authorized to modify this warranty or to incur on behalf of Alto-Shaam any other obligation or liability in connection with Alto-Shaam equipment.



ffective November 1	, 2011
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RECORD THE MODEL AND SERIAL NUMBER OF THE APPLIANCE FOR EASY REFERENCE.	
ALWAYS REFER TO BOTH MODEL AND SERIAL NUMBER IN ANY CONTACT WITH ALTO-SHAAM REGARDING THIS APPLIANCE.	
Model:	Date Installed:
Voltage:	Purchased From:
Serial Number:	

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